- Stage Construction Line

<u>"A"</u>

Foam Plugs

Threaded or Coil

Splicer Rods (E)

Template

Forms -

Contract #78006

<u>NOTES</u>

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length. All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

Minimum Capacity (Tension in kips) = $1.25 \times fy \times A_t$

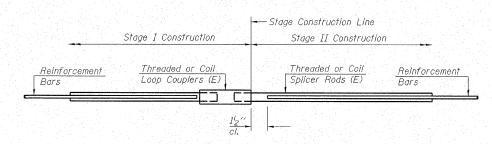
(Tension און גוףט) Minimum *Pull-out Strength = 0.66 x fy x A_t (Tension in kips)

Where fy = Yield strength of lapped reinforcement bars in ksi.

A, = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

	BAR SPLIC	CER ASSEMBLIES		
		Strength Requirements		
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension	
#4	1'-8''	14.7	7.9	
#5	2′-0″	23.0	12.3	
#6	2'-7"	33.1	17.4	
#7	3′-5′′	45.1	23.8	
#8	4'-6"	58.9	31.3	
#9	5′-9′′	75.0	39.6	
#10	7′-3′′	95.0	50.3	
#11	9'-0''	117.4	61.8	



STANDARD

Bar Size	No. Assemblies Required	Location
#5	239	Slab
#7	12	N. Abut.
#7	12	S. Abut.
#7	12	Pier 1
 #5	14	Pier 1
#7	12	Pier 2
#5	14	Pier 2
#7	12	Pier 3
#5	14	Pier 3



3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400

ELGIN . SPRINGFIELD PROJECT NUMBER: 12-41-0021-i DATE: 09/25/07 ESIGNED: S.M.S. CHECKED: S.W.M. DRAWN: D.B.

IL RTE. 142 OVER CONTRARY CREEK (NORTH OVERFLOW) F.A.P. ROUTE 776 - SECTION (116BR-2)B-1 HAMILTON COUNTY STRUCTURE NO. 033-0051 / STATION 539+14.20

BAR SPLICER ASSEMBLY DETAILS

The diameter of this part is equal or larger than the ШШ diameter of bar spliced. The diameter of this part is the same as the diameter of the bar spliced. ROLLED THREAD DOWEL BAR

** ONE PIECE

-Wire Connector ועונעועו

WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.

INSTALLATION AND SETTING METHODS

Washer Face

<u>"B"</u>

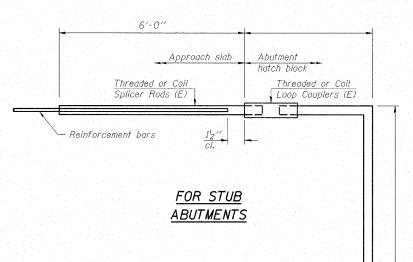
"A": Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms,

(E): Indicates epoxy coating.

Bridge Deck Approach Slab Threaded or Coil Reinforcement Threaded or Coil Splicer Rods (E) Bars Loop Couplers (E)

FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

	Bar Splicer for #5 bar					
	Min. Capacity = 23.0 kips - tension					
	Min. Pull-out Strength = 12.3 kips - tension					
	No. Required =					



	Bar Splicer for #5 bar
Mir	n. Capacity = 23.0 kips - tension
Mir	n. Pull-out Strength = 12.3 kips - tension
No	Required =

BSD-1

11-1-06